

BDCP Update
to the
Delta Stewardship Council
Presentation by the Independent Consultant



August 26, 2010



Delta Plan Requirements for BDCP

- ✓ Compliance with Fish and Game Code for a NCCP
- ✓ Compliance with CEQA, including
 - Reasonable flow criteria
 - Reasonable conveyance alternatives
 - Potential effects of climate change
 - Potential effects on fish and aquatic resources
 - Potential effects on flood management
 - Resilience and recovery
 - Potential effects on water quality
- ✓ Transparent, real-time operational decision-making process

Bay Delta Conservation Plan Elements

BDCP
HCP/NCCP

Take permit
for
endangered
species

DHCCP

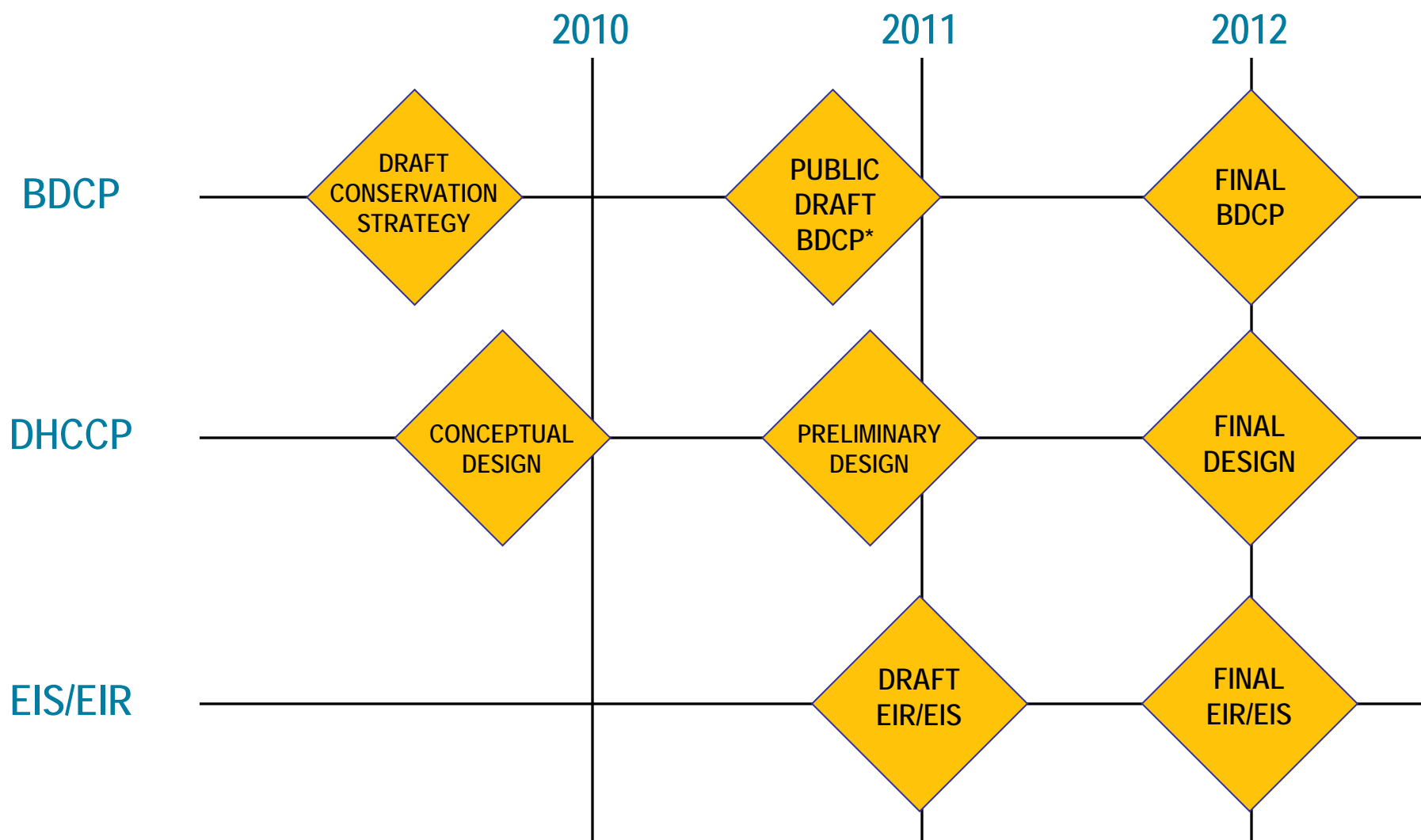
Engineering
Design

EIS/EIR

NEPA/CEQA
environmental
consideration
of proposed
action and
alternatives



Bay Delta Conservation Plan Schedule



Channel Margin – 20 to 40 linear miles

Floodplain (new) – up to 10,000 acres

Floodplain (enhanced existing)

Tidal Marsh – up to 65,000 acres

Riparian – 5,000 acres

Other Terrestrial Habitat – 45,000 acres (within the planning area)

Potential Conveyance

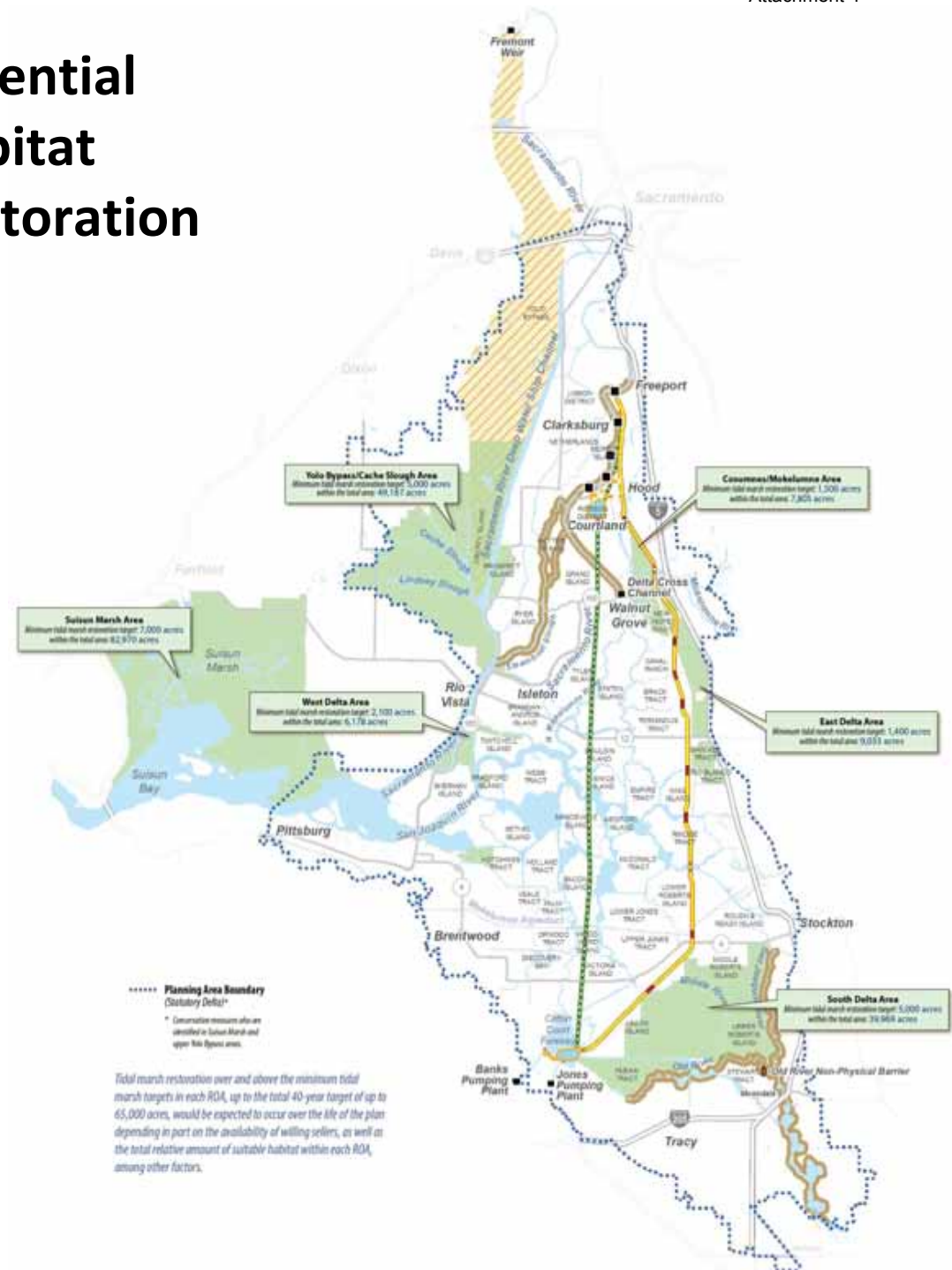
15,000 cfs Tunnel:

- 35 miles twin bore 33' ID, +/- 150' deep
- Intake tunnel 8 miles single bore 23' – 33' ID
- 750 acre forebay in the north

15,000 cfs Canal:

- 40 miles of canal, 1,400' footprint
- 4 tunnels (2 miles total in length)
- 8 siphons
- Forebay with 620 acres of water surface area

Potential Habitat Restoration





Bay-Delta Conservation
Plan

Bay Delta Conservation Plan

● What will the project look like?

- Where is the project?
- How will it operate?



● What will it cost?

- Who will finance the costs? How?
- Who will split the costs? How?

● What are the benefits & risks?

- What size should it be?
- What can be delivered with new conveyance?
- What can be delivered without?

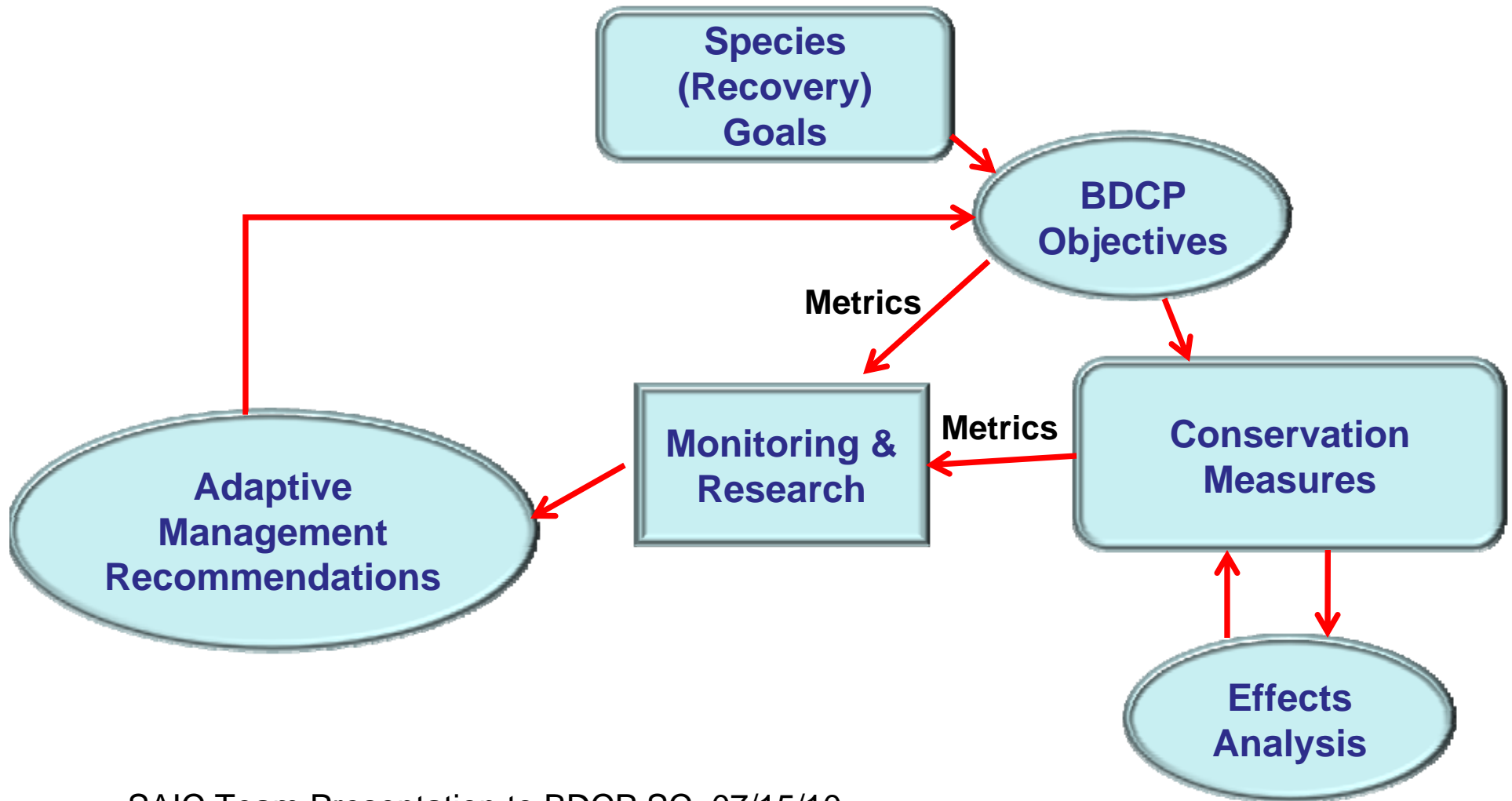


Developing Effective Adaptive Management within the BDCP

- ✓ NRC and ISA: BDCP must use a robust adaptive management approach linking Conservation Measures (CMs) to quantifiable biological objectives
- ✓ Development of Logic Chain is being used as a framework to link fish recovery goals with BDCP goals, objectives, CMs, monitoring, and adaptive management

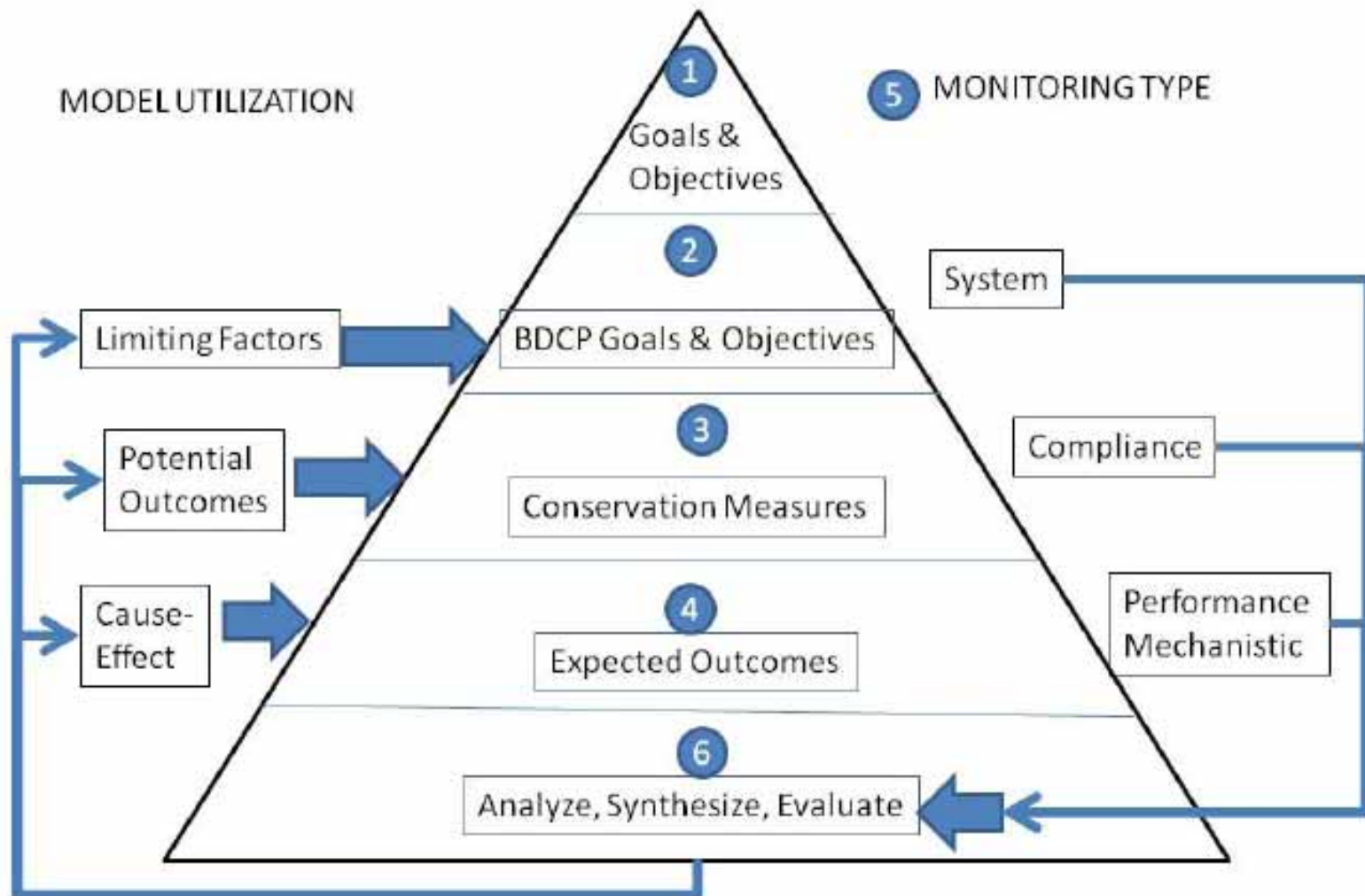


BDCP Adaptive Management Process



SAIC Team Presentation to BDCP SC, 07/15/10

Review Panel Recommendations



Status Summary

- ✓ BDCP approach to adaptive management:
 - (1) identify and address uncertainties
 - (2) devise alternative approaches and select approach
 - (3) integrate with a monitoring & research program
 - (4) incorporate feedback loops that link implementation and monitoring to a decision-making process
- ✓ Steps are not yet well defined or integrated into BDCP draft document
- ✓ Development of Logic Chain is still preliminary

Status Summary (contd.)

- ✓ Independent Science Advisors have provided helpful input but many issues and recommendations have yet to be addressed

- ✓ Current lack of clarity on implementation of adaptive management within draft BDCP document
 - Decision-making (what, how, and on what basis)
 - Clear relationship to the scientific process
 - Program elements such as the management of projects on the ground
 - Proper implementation is critical for successful outcome

Enhancing Adaptive Management

- ✓ Revise the BDCP draft to support implementation of the Logic Chain
- ✓ Adopt and integrate framework as proposed by ISA
- ✓ Improve connection of Logic Chain information to decision-making and project implementation
- ✓ Identify needed management decisions
- ✓ Identify how scientific information will be used to support decisions
- ✓ Link objectives and proposed CMs through modeling

Next steps for the Independent Consultant

- ✓ Continue targeted review
- ✓ Meet with technical staff
- ✓ Develop issues summary

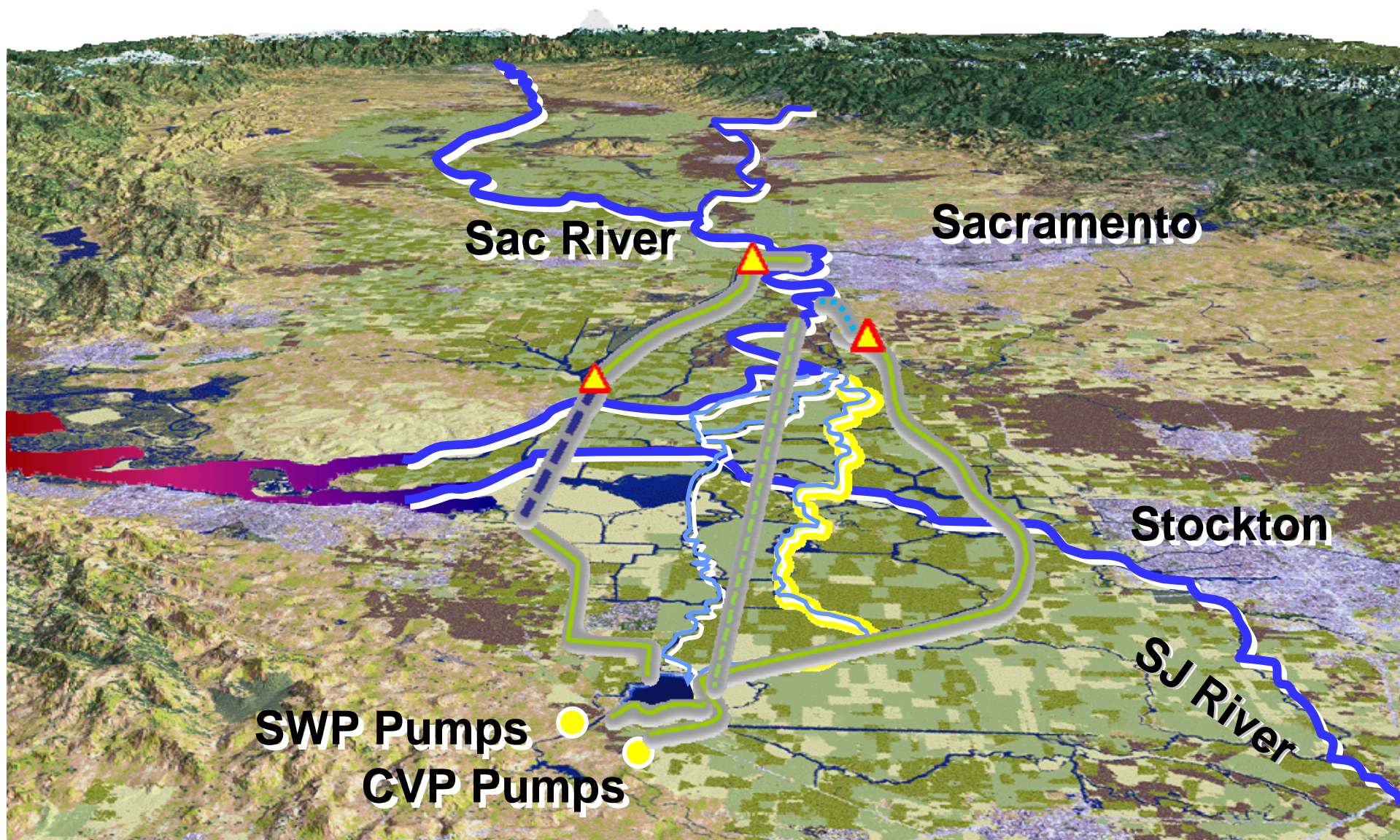
COUNCIL ACTION REQUESTS:

- ✓ Direction on how to obtain information to assess criteria for acceptance of BDCP into the Delta Plan
- ✓ Assist in facilitating access to BDCP technical staff



Bay Delta Conservation Plan

Conveyance alternatives



Draft Conservation Strategy – Flows

Inflow requirements

Outflow requirements and management of X2

Assure adequate net flow at Rio Vista

Modify Delta Cross Channel gate operations

Ratio between San Joaquin River inflow and South Delta exports

Maintain protective Old and Middle River flows

Preferentially use North Delta diversions

New North Delta diversion bypass flows

Water quality standards set forth in State Board rule D-1641

